SB 189 S5



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B 189

Official
Grain Standards
of the
United States
for

Wheat and Corn
Tabulated and Abridged



ARRANGED BY
Simonds-Shields Grain Co.
KANSAS CITY, MO.

SIMONDS-SHIELDS-LONSDALE GRAIN CO.

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IMPORTANT NOTICE

U. S. standards of quality and condition for Hard Red Winter Wheat, Soft Red Winter Wheat, Common White Wheat and White Club Wheat, effective July 1, 1917.

For all other wheat, August 1, 1917.

The following suggestions made by the U.S. Department of Agriculture are good ones, and if followed closely should result to your benefit. They apply equally to wheat as well as corn.

Interstate and export shipments by grade of shelled corn come under the provisions of the United States Grain Standards Act.

GET HIGH GRADES FOR YOUR CORN Avoid Expensive Delays by Handling and Loading Your Grain Properly

Licensed inspectors can not with safety issue certificates of grade on interstate or foreign shipments of shelled corn unless the conditions permit them to determine the true grade of the grain. If the car is loaded too full, or if the grain in it is not uniform as to color, moisture content, damaged, foreign material, etc., it will be difficult for the inspectors to secure representative samples; the car may even have to be partially unloaded before the inspection can be completed. This may take several days.

How You Can Aid Inspectors and Facilitate Grading

1. Carefully classify grain received. This should be done by quality, condition, and color.

2. Reserve at least 1 bin for loading purposes. This is in order that corn can be "run," cleaned, conditioned, and mixed.

3. Clean the grain before loading. This helps to insure a high commercial grade and tends to prevent deterioration in transit.

4. Clean the car thoroughly before loading. Such matter as coal, fertilizer, etc., on the floor of a loaded car often results in otherwise good grain being graded as "sample" or other low grade.

5. Carefully cooper cars and watch for

leaky roofs.

6. Don't mix in other colors when ship-

ping grain of a given color.

7. Leave at least 30 inches of space between grain and roof of car. Load the grain uniformly and then level it down. If the proper space is not left between the top line of the grain and the roof of the car a representative sample of the grain can not be secured.

8. Avoid concentrating dirt, broken grains and meal. If such materials accumulate near the doors or otherwise, distribute it by

hand shoveling.

9. Take a representative sample of the loaded grain. This should be done by probing in at least five different places with a 60-inch trier. The sample should be tested for every factor to determine what grade the grain inspector may be expected to place upon the lot.

For Further Information Apply to
U. S. DEPARTMENT OF AGRICULTURE,
Office of Markets and Rural Organization,
Washington, D. C.

OFFICIAL GRAIN STANDARDS OF THE UNITED STATES FOR WHEAT

Section 1. Basis of determination.—Each determination, other than that of dockage, for the purposes of these standards shall be

made upon the basis of the grain when free from dockage.

Sec. 2. Percentages.—Percentages, except in the case of moisture, shall be percentages

ascertained by weight.

Sec. 3. Dockage. - Dockage includes sand, dirt, weed seeds, weed stems, chaff, straw, grain other than wheat, and any other foreign material which can be removed readily from the wheat by the use of appropriate sieves, cleaning devices, or other practical means suited to separate the foreign material present; also undeveloped, shriveled, and small pieces of wheat kernels necessarily removed in properly separating the foreign material. The quantity of dockage shall be calculated in terms of percentage based on the total weight of the grain, including the dockage. The percentage of dockage so calculated shall be stated in terms of whole per centum and half per centum. A fraction of a per centum when equal to, or greater than, a half shall be treated as a half, and when less than a half shall be disregarded. The percentage of dockage so determined and stated shall be added to the grade designation.

(For size and specifications regarding sieves to determine dockage of wheat, see

page 21.)

Sec. 4. . Wheat.—Any grain which, when free from dockage, contains more than six per centum of grain of a kind or kinds other than wheat shall not be classed as wheat.

Sec. 9.—Test Weight per Bushel.—Test weight per bushel shall be the weight per Winchester bushel as determined by the testing apparatus and the method of use thereof described in Bulletin 472, dated October 30, 1916, issued by the United States Department of Agriculture, or as determined by any device giving equivalent results.

Sec. 10. Percentage of Moisture.—Percentage of moisture in wheat shall be that, or the equivalent of that, ascertained by the moisture tester and the method of use thereof described in Circular 72, and supplement thereto, issued by the United States Department of Agriculture, Bureau of Plant Indus-

try.

Sec. 11. Heat-damaged Kernels.—Heat-damaged kernels shall be kernels of wheat which have been distinctly discolored as a result of heating caused by fermentation.

Sec. 12. Inseparable Foreign Material.— Inseparable foreign material shall include all matter other than wheat which is not separated from the wheat in the proper determination of dockage.

Sec. 6. Mixed Wheat.—Mixed wheat shall be any mixture of wheat not provided for in the classes from I to VI, inclusive, defined

in Section 5.

GRADES FOR MIXED WHEAT.

Sec. 21. Grades for Mixed Wheat.—Mixed wheat shall be graded and designated according to the grade requirements of the class of wheat which predominates over each other class in the mixture. There shall be added to, and made a part of, its grade designation the word "Mixed" and the names of the classes which compose the mixture, in the order of their predominance, together with the approximate percentage of each class, except that, if the wheat of any class amounts to less than ten per centum of the whole mixture, its name and percentage, need not be stated.

Sec. 8. Treated Wheat.—Treated wheat shall be wheat which has been scoured, limed, washed, or treated in any similar manner.

GRADES FOR TREATED WHEAT.

Sec. 23. Grades for Treated Wheat.—Treated wheat shall be graded and designated according to the grade requirements of the standard applicable to such wheat if it were not treated, and there shall be added to, and made a part of, its grade designation a statement indicating the kind of treatment.

Sec. 7. Smutty Wheat.—Smutty wheat shall be all wheat which has an unmistakable odor of smut, or which contains spores, balls, or portions of balls, of smut, in excess of a quantity equal to one ball of average size in fifty grams of wheat.

GRADES FOR SMUTTY WHEAT.

Sec. 22. Grades for Smutty Wheat.— Smutty wheat shall be graded and designated according to the method described either in paragraph (a) or paragraph (b) of this section.

(a) The loss in weight caused by the removal of smut from the wheat, when free from dockage, shall be ascertained by scouring, washing, or otherwise, and shall be calculated in terms of percentage based on the total weight of the grain free from dockage. The percentage so calculated shall be stated in terms of whole per centum and half per centum. A fraction of a per centum when equal to, or greater than, a half, shall be treated as a half, and when less than a half shall be disregarded. After the loss in weight caused by the removal of the smut has been ascertained, the wheat shall be graded and designated according to the grade requirements of the standard applicable to such wheat if it were not smutty, and there shall be added to, and made a part of, the grade designation the percentage so determined and stated together with the words "smut dockage."

(b) Smutty wheat shall be graded and designated according to the grade requirements of the standard applicable to such wheat if it were not smutty, except that when the amount of smut present is so great that any one or more of the grade requirements of the grades from No. 1 to No. 5, inclusive, cannot accurately be applied, the wheat shall be classified as sample grade. For all grades there shall be added to and made a part of the grade designation the

word "Smutty."

Class III.

This class shall include all varieties of hard red winter wheat, but shall not include more than HARD RED WINTER WHEAT.

ten per centum of other wheat or wheats. This class shall be divided into three sub-classes as follows:

Dark Hard Winter.

This subclass shall include wheat of the class Hard Red Winter of which ninety per centum or more consists of dark, hard, and vitreous kernels.

This subclass shall include wheat of the class Hard Red Winter of which less than ninety per Hard Winter.

This subclass shall include wheat of the class Hard Red Winter which consists of kernels of centum and more than twenty-five per centum consists of dark, hard, and vitreous kernels. Yellow Hard Winter.

yellow or mottled appearance, or of starchy texture, and of not more than twenty-five per centum of dark, hard and vitreous kernels.

Sample Grade Dark Hard Winter, Sample Grade Hard Winter, and Sample Grade Yellow Hard Winter. Each shall be wheat of the subclass Dark Hard Winter, or Hard Winter, or Yellow Hard Winter, respectively, which does not come within the requirements of any of the grades from No. 1 to No. 5, inclusive, or has any commercially objectionable foreign odor, except smutty wheat, or is distinctly musty or very sour, or is hot, heating, fire-burned, infested with live weevil, or otherwise of distinctly low quality, or contains garlie or wild onion bulblets, or has an unmistakable odor of garlie or wild onions, or contains small, inseparable stones or cinders.

HARD REI	3	HARD RED WINTER WHEAT		Maxi	Jo	91	-	Maxim. dam-	dam-	Maximum	Maximum inseparable
				o		ını		aged Kernels	ernels	Foriegn	Foriegn Material
GRADE					Which may include com- mon white.	siold %	Test ss.		Which		Which may include king-
(For Sample Gradt see page 6.)	Grade.	Shall include dark, hard and vitreous kernels. $\%$		Total	E	Maximum		Total %	may include heat- damaged	Total	() () () () ()
Dark Hard	No. 1	No. 1 95 or more and sound	Bright, cool and sweet	71	1	133	5	1 -	None	1% of 1%	1/4 of 10%
Hard Yellow Hard	No. 1	No. 1 Less than 90; more than 25 No. 1 Not more than 25	Bright, cool and sweet	21	1	1 82	5		i-	1% of 1%	17, of 10%
Dark Hard Hard Yellow Hard	No. 2 No. 2 No. 2	No. 2 Less than 90; more than 25 No. 2 Not more than 25	Cool and sweet	4	63	-	29	4 1-10	1 10	H	1/2 of 1%
Dark Hard Hard Yellow Hard	No. 3 No. 3 No. 3	No. 3 60 or more No. 3 Less than 90; more than 25 No. 3 Not more than 25	Cool and sweet	9	00	14	22	7 7	½ of 1%	63	H
Dark Hard Hard Yellow Hard	No. 4 No. 4 No. 4	No. 4 60 or more No. 4 Less than 90; more than 25 No. 4	Cool and sweet	10	10	14	55	10	-	4	63
Dark Hard Hard Yellow Hard	No.5	60 or more Less than 90; more than 25 Not more than 25	Cool, but may be slightly musty or slightly sour	10	10	15	23	15	60	9	m

SOFT RED WINTER WHEAT.

Class IV.

This class shall include all varieties of soft red winter wheat, also red club and red hybrid wheats

of the Pacific Northwest, but shall not include more than ten per centum of other wheat or wheats.

This class shall be divided into three subclasses, as follows:

Red Winter.

This subclass shall include wheat of the class Soft Red Winter of both light and dark colored kernels, but shall not include more than ten per centum of wheat of the subclass Red Walla, nor any wheat which contains garlic or wild onion bulblets or has an unmistakable odor of garlic or wild

per centum, either singly or in any combination of Red Russian, red clubs, red hybrids, and other soft red winter wheats possessing the characteristics of those varieties as grown west of the Great This subclass shall include wheat of the class Soft Red Winter which contains garlic or wild This subclass shall include wheat of the class Soft Red Winter which consists of more than ten Plains area of the United States, but shall not include any wheat which contains garlie or wild onion bulblets or has an un unmistakable odor of garlie or wild onions. Red Walla. Soft Red. onions.

onion bulblets or has an unmistakable odor of garlic or wild onions.

RED WIN	RED WINTER WHEAT					dama	Maximum damaged kernels	Maximum	Maximum inseparable foreign material
			Maximum Wheat of other Classes.						Which may in-
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		Total	Which may mon and re not to	Maxk- mum Moisture content	Minimum Test weight	Total	which may include heat- damaged	Total	'lude kingnead, corn cockle, vetch darnel or wild rose either singly or in any combi-
ou C	Bright	0/	0/	0	100	0 ,	0/	0/	exceed %
inc and	Cool and sweet	N	7	13	10	1	МОПВ	% OI 1%	% of 1%
o p	Cool and sweet	4	1	13	59	4	1/10 of 1%	r	% of 1%
10 Ilw 10 10	Cool and sweet	9	1	14	29	2	% of 1%	93	-
	Cool and sweet	10	1	14	55	10	1	4	67
Shalle Sarlic bublet Idakat ro	Cool but may be slightly musty or slightly sour	10	-1	15	53	15	83	9	es
Sample—from No. 1 musty or ve	Sample—Shall be wheat of the subclass Rec from No. 1 to No. 5, inclusive, or has any con musty or very sour, or is hot, heating, fire-bu contains small, inseparable stones or cinders.	the su or hi	Sample—Shall be wheat of the subclass Red Winter which does not come within the requirements of any of the grades from No. 1 to No. 5, inclusive, or has any commercially objectionable foreign odor, except smutty wheat, or is distinctly musty or very sour, or is hot, heating, fire-burned, infested with live weevil, or otherwise of distinctly low quality, or contains small, inseparable stones or einders.	does not e ctionable with live	come wit foreign weevil,	hin thodor, or oth	e requireme except smut erwise of d	nts of any ty wheat, listinctly lo	of the grades or is distinctly w quality, or

SOFT RE	SOFT RED WHEAT								
			Maximum Wheat of other Classes.			Ma	Maximum damaged + ernels	Maximum foreign	Maximum inseparable foreign material
							TWEST		Which may in-
GRADE		Total %	Which may include common and red durum not to exceed	Maxi- mum Moisture content	Minimum Test weight Ibs.	Total	wnich may include heat- damaged	Total	clude kinghead, corn cockle, vetch, darnell or wild rose either singly or in any combi- nation not to exceed %
n i s. noloo simis- sims.	Bright Cool and sweet	61	1	13	19	1	None	1/2 of 1%	½ of 1%
o pi u n es to	Cool and sweet	4	1	13	59	4	1/10 of 1%	1	1/2 of 1%
iw iw a 10 tobe	Cool and sweet	9	F	14	29	4	1/2 of 1%	67	1
10 10 ts c 0 9[0	Cool and sweet	10		14	55	10	1	4	23
S h garlic bulble fakat	Cool but may be slightly musty or slightly sour	10	. 1	19.	53	15	60	9	89
Sample- from No. 1 musty or v contains sm	Sample—Shall be wheat of from No. 1 to No. 5, inclusive, musty or very sour, or is ho contains small, inseparable st of garlie or wild onions.	the st t, or ha t, heat	Sample—Shall be wheat of the subclass Soft Red which does not come within the requirements of any of the grades from No. 1 to No. 5, inclusive, or has any commercially objectionable foreign odor, except smutty wheat, or is distinctly contains small, inseparable stones or einders; and shall contain small, inseparable stones or einders; and shall contain garlic or wild onion builbiets, or have an unmistakable odor of garlic or wild onlons.	lo es not et ionable 1 with liv ain garlic	come with foreign or e weevil, or wild or	in the dor, e. or oth	requiremen reept smutt nerwise of o	ts of any y wheat, of distinctly layer an unn	of the grades or is distinctly ow quality, or

			Maximum Wheat			Madamag	Maximum damaged kernels	Maximun foreign	Maximum inseparable foreign material
			or other Classes.				Which		Which may in-
GRADE		Total	Which may include common and red durum not not to exceed	Maxf- mum Moisture content	Minimum Test weight lbs.	Total	May include heat- damaged %	Total	corn cockle, vetch, darnel or wild rose either singly or in any combination not to exceed %
nion nion mis- mis-	Bright Cool and sweet	67	1	13	8	-	None	% of 1%	1/4 of 1%
inos inu inu iss i	Cool and sweet	4	7	13	88	+	1/10 of 1%	1	% of 1%
Milw an o to	Cool and sweet	9	. 1	14	56	4	% of 1%	23	1
10	Cool and sweet	10	1	14	75	10	1	4	57
Shall garlic bulblet takabl ro	Cool but may be slightly musty or slightly sour	2	1	15	25	15	တ	9	60

11

This class shall include all varieties of hard red spring wheat, but shall not include more than

ten per centum of other wheat or wheats. This class shall be divided into four subclasses as fol-This subclass shall include wheat of the class Hard Red Spring of which eighty-five per centum This subclass shall include wheat of the class Hard Red Spring of which less than eighty-five more consists of dark, hard, and vitreous kernels, but shall not contain more than ten per centum Dark Northern Spring. Northern Spring. wheat of the variety Humpback.

per centum and more than twenty-five per centum consists of dark, hard, and vitreous kernels. but shall not contain more than ten per centum of wheat of the variety Humpback.

This subclass shall include wheat of the class Hard Red Spring which consists of kernels of

yellow or mottled appearance, or of starchy texture, and of not more than twenty-five per centum of dark, hard, and vitreous kernels, but shall not contain more than ten per centum of wheat of the va-This subclass shall include wheat of the class Hard Red Spring of which more than ten per Red Spring Humpback. riety Humpback

Sample Grade Dark Northern Spring, Sample Grade Northern Spring, and Sample Grade Red Spring. Each shall be wheat of the subclass Dark Northern Spring, or Northern Spring, or Red Spring, respectively, which does not come within the requirements of any of the grades from No. 1 to No. 5, inclusive, or has any commercially objectionable foreign odor, except smutty wheat, or is distinctly centum consists of wheat of the variety Humpback.

low quality, or contains garlie or wild onion bulblets, or has an unmistakable odor of garlie or wild

onions, or contains small, insenarable stones or einders

musty or very sour, or is hot, heating, fire-burned, infested with live weevil, or otherwise of distinctly

	DARK NORTH SPRING AN	DARK NORTHERN SPRING, NO SPRING AND RED SPRING WE	NORTHERN WHEAT	of t Of t Hu	Maximum wnear of the variety of Humpback and wheat of other			Ma dar ke	Maximum damaged kernels	Maximum foreign	Maximum inseparable foreign material
					classes						
	GRADE (For Samrle Grade see Fage 12.)	Shall include dark, hard and vitreous kernels.		Total %	Which may include common white, white club or common and red durum ether singly or in any comb, not to exceed %	Maximum Moisture content %	Minimum Test Wgt, Ibs.	fetoT	Which may include heat-damaged	Total	Which may include king-head, corn cackle, vetch, darnel or wild rose either singly or in any comb, not to exceed %
13	Dk. Nor. Spg. No. 1 Nor. Spg. No. 1 Red Spg. No. 1	85 or more Less than 85 more than 25 Not more than 25	Bright, cool and sweet	27	1	13.5	29	1	None	½ of 1%	1/4 of 1%
	Dk. Nor. Spg. No. 2 Nor. Spg. No. 2 Red Spg. No. 2	85 or more Less than 85 more than 25 Not more than 25	Cool and sweet	4	63	14.5	22	4	4 1/100f1%	1	1/2 of 1%
	Dk. Nor. Spg. No. 3 Nor. Spg. No. 3 Red Spg. No. 3	85 or more Less than 85 more than 25 Not more than 25	Cool and sweet	9	00	14.5	55	-1	7 ½ of 1%	c 1	1
	Dk. Nor. Spg. No. 4 Nor. Spg. No. 4 Red Spg. No. 4	85 or more Less than 85 more than 25 Not more than 25	Cool and sweet	10	10	15.5	53	10	1	4	67
	Dk. Nor. Spg. No. 5 Nor. Spg. No. 5 Red Spg. No. 5	85 or more Less than 85 more than 25 Not more than 25	Cool but may be slightly musty or slightly sour	10	ro.	15.5	51	16	89	9	D 3

RED SPRI	RED SPRING HUMPBACK WHEAT	CK W	HEAT		-	Ma	Maximum	Maximum	Maximum inseparable
			Maximum Wheat			damag	damaged ernels	foreign	foreign material
			Which may include common white, white club or				Which		Which may in- clude kinghead, corn cockle, vetch,
			common and red durum either singly or in any combination not to	Maximum Minimum Moisture Test	Minimum		may include heat-		darnel or wild rose either singly or in any combination not to
GRADE		Total	exceed %	content	weight lbs.	Total	damaged	Total	exceed
1	Bright Cool and sweet	63	1	13.5	29	H	None	½ of 1%	1/4 of 1%
67	Cool and sweet	4	2	14.5	29	4	1/10 of 1%	1	½ of 1%
800	Cool and sweet	9	8	14.5	55	7	1/2 of 1%	2	1
+	Cool and sweet	10	ıo	15.5	53	10	1	4	2
io.	Cool but may be slightly musty or slightly sour	10	ro	15.5	19	15	80	9	89
Sample—the grades 1 distinctly m ity, or cont insparable s	Sample—Shall be wheat of the grades from No. 1 to No. distinctly musty or very sour ity, or contains garlie or wild insparable stones or cluders.	the sub 5, incl , or is i onion	Sample—Shall be wheat of the subclass Red Spring Humpback which does not come within the requirements of any of the grades from No. 1 to No. 5, inclusive, or has any commercially objectionable foreign odor, except smutty wheat, or is distinctly musty or very sour, or is hot, heating, fire-burned, infested with live weevil, or otherwise of distinctly low quality, or contains garlie or wild onlon builblets, or has an unmistakable odor of garlic or wild onlons, or contains small, imparable stones or enders.	pback whie ercially ob d, infested mistakable	th does no jectionable with live	t con e fore weevil garlic	e within thign odor, estimated, or otherwork or wild or	e requireme keept smutt ise of distin nions, or c	nts of any of y wheat, or is notly low qualontains small,

This class shall include all varieties of durum wheat, but shall not include more than ten per This subclass shall include wheat of the class Common and Red Durum of which seventy-five centum of other wheat or wheats. This class shall be divided into three subclasses as follows: Common and Red Durum. Amber Durum.

per centum or more consists of kernels of amber color and texture, but shall not contain more than ten per centum of wheat of the variety Red Durum.

This subclass shall include wheat of the class Common and Red Durum which consists of kerof kernels of amber color and texture, but shall not contain more than ten per centum of wheat of the nels of yellow or mottled appearance, or of starchy texture, and of less than seventy-five per centum variety Red Durum. This subclass shall include wheat of the class Common and Red Durum which consists of more than ten per centum of wheat of the variety Red Durum.

Red Durum.

within the requirements of any of the grades from No. 1 to No. 5, inclusive or has any commercially Sample Grade Amber Durum and Sample Grade Durum.

Each shall be wheat of the subclass Amber Durum or Durum, respectively, which does not come

objectionable foreign odor, except smutty wheat, or is distinctly musty or very sour, or is hot, heat-

ing, fire-burned, infested with live weevil or otherwise of distinctly low quality, or contains garlie or wild onion bulblets, or has an unmistakable odor of garlie or wild onions, or contains small, insepar-

able stones or cinders.

MBER	DURUM A	ND	DUR	MBER DURUM AND DURUM WHEAT			Ma	Maximum damaged kernels	Maximum	Maximum inseparable foreign material
			wari of v	Maximum Wheat of the variety of Red Durum and of Wheat of other classes						Which may include
RADE			Total	Which may include common white, white club or soft red where elther singly Maximum Minimum or in any combination Moisture Test not to exceed %	Maximum Moisture content %	Minimum Test weight Ibs.	Total	Which may include heat-damaged	Total %	Annghead, corn cockle, vetch, darnell or wild rose either singly or in any combination not to exceed
1	Bright Cool and sweet	sweet	63	1.*	13.5	61	1	None	% of 1%	% of 1%
23	Cool and sweet	sweet	10	9	14.5	69	4	1/10 of 1%	н	1/2 of 1%
83	Cool and sweet	sweet	10	io	14.5	22	-	1/2 of 1%	23	1
-	Cool and sweet	sweet	10	10	15.5	733	10	1	4	67
ıo	Cool but may be slightly musty or slightly sour	ay be	92	ıs	15.5	53	15	69	9	62
Sem Note	ple see page	15.	permit	Sample see page 15. Note * Grade No. 1 will permit full 2% Red Durum.					,	

RED DUF	RED DURUM WHEAT								
			Maximum Wheat of other Classes.	,		Mamai	Maximum damaged kernels	Maximum foreign	Maximum inseparable foreign material
GRADE		Total	Which may include common white, white cub or soft red winter either singly or in any combination not to exceed	Maximum Minimum Moisture Test content weight %	Minimum Test weight lbs.	Total	Which may include heat- damaged	Total %	Which may in- clude kinghead, corn cockle, vetch, darnel or wild rose either singly or in any combi- nation not to exceed %
г	95% or more of the variety red durum. Bright, Cool and sweet	69	н	13.5	6	н	None	% of 1%	% of 1%
2	Cool and sweet	-	83	14.5	69	4	1/10 of 1%		1/2 of 1%
63	Cool and sweet	9	83	14.5	29	-	1/2 of 1%	63	п
•	Cool and sweet	10	10	16.5	13	10	1	4	53
2		2	2	15.5	200	16	8	9	89
Sample—Sh 5, inclusive, beating, fire-l an unmistaka	all be wheat of the or has any commercurred, infested with ble odor of garlic o	subclas	Sample—Shall be wheat of the subclass Red Durum which does not come within the requirements of any of the grades from No. 5, inclusive, or has any commercially objectionable foreign odor, except smutty wheat, or is distinctly musty or very sour, or is backing, fire-burned, infested with live weetl, or otherwise of distinctly low quality, or contains garlic or wild onlon bulblets, or an unmistakable odor of garlic or wild onlons, or contains small, inseparable stones or cinders.	s not come sexcept smu latinctly low	within the tty wheat, quality, c	required or is or conts	requirements of any of the grades from No. or is distinctly musty or very sour, or is or contains garlic or wild onlon bulblets, or or cinders.	of the grade sty or very wild onion	s from No. 1 to sour, or is het, bulblets, or has

Class V.

COMMON WHITE WHEAT.

This class shall include all varieties, except Sonora, of common white wheat, whether winter or spring grown, but shall not include more than ten per centum of other wheat or wheats. This shall

be divided into two subclasses, as follows:

This subclass shall include (white) Bluestem, early Baart, Allen or Red Allen, Galgalos (white), Hard White.

Martin Amber, and wheats possessing similar characteristics, of the class Common White, but shall

This subclass shall include wheat of the class Common White which contains more than twenty per centum of kernels of soft and chalky texture, and all wheat of the class Common White not innot include more than twenty per centum of kernels of soft and chalky texture. Soft White.

Sample Grade Hard White and Sample Grade Soft White.

eluded in the subclass Hard White.

Each (a) shall be wheat of the subclass Hard, White or Soft White, respectively, which does not come within the requirements of any of the grades from No. 1 to No. 5, inclusive, or has any commercially objectionable foreign odor, except smutty wheat, or is distinctly musty or very sour, or is

hot, heating, fire-burned, infested with live weevil, or otherwise of distinctly low quality, or contains garlie or wild onion bulblets, or has an unmistakable odor of garlie or wild onions, or contains small, inseparable stones or cinders.

COMMON	COMMON WHITE WHEAT	EAT				M	Maximum	Maximun	Maximum inseparable
			Merimum Wheet			damai	damaged kernels	foreign	foreign material
	·		of other Classes.						Which may include kinghead
Hard White Soft White GRADE		Total	Which may include common and red durum not to exceed	Maxi- mum Moisture content %	Minimum Test weight lbs.	Total	Which may include heat- damaged %	Total	vetch, darnel or wild rose either singly or in any com- bination not to exceed
1	Bright Cool and sweet	67	1	13	8	-	None	1/2 of 1%	1/4 of 1%
8	Cool and sweet	4	1	13	28	4	1/10 of 1%	1	1/2 of 1%
60	Cool and sweet	9		. 14	99	1	% of 1%	22	1
7 .	Cool and sweet	10	1	14	72	10	1	4	63
ro	Cool but.may be slightly musty or slightly sour	10	1	15	52	16	က	9	က

Sample see page 18.

This Class shall include all varieties and hybrids of white club wheat, and the common white wheat known as Sonora, but shall not include more than ten per centum of other wheat.

		damag	damaged kernels	foreign	foreign material
					Which may in- clude kinghead
Maxi- mum Moisture content	Minimum Test weight Ibs.	Total	Which may include heat-damaged %	Total %	vetch, darnel or wild rose either singly or in any com- bination not to exceed
13	8	-	None	½ of 1%	% of 1%
13	58	4	1/10 of 1%	1	1/2 of 1%
14	99	1	1/2 of 1%	61	1
14	72	10	1	*	63
15	52	15	က	8	63
ot	14 15 come w	14 54 15 52 come within the re-	14 54 10 15 52 15 come within the requirement 15 15	15 52 15 8 come within the requirements of any of	52 15 ewithin the requirement to the second of the second

20

GRAIN SIEVES.

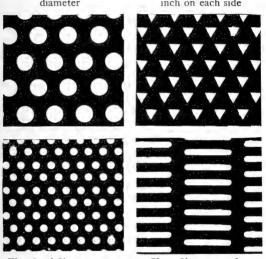
For the Determination of Dockage Under the Official Grain Standards of the

United States for Wheat

Sieves and bottom pan for each set should be circular in shape and made of aluminum, brass or other suitable material. The metal should be .025 to .035 inches in thickness.

Scalper Sieve: - perforations 12-64 inch in diameter

Buckwheat Sieve: -- perforations exactly 8-64 inch on each side



Fine Seed Sieve: - perforations exactly 1-12 inch in diameter

Chess Sieve: - perforations exactly 41/2-64 inch x 1/2 inch

(a) Bottom Pan-Inside diameter should be 131/2 inches; depth 21/2 inches; and roll at top of pan is inch in diameter.

NOTE-Sieves should be made to nest very freely with the bottom pan. The scalper sieve should nest very freely with each of the other sieves and also with the

bottom pan.

The accompanying views of sections of perforated metal show the arrangement and kind of perforations desired and the proportional amount of metal between perforations. The perforations should be the exact size as given in the specifications for the sieves and should extend completely across the bottom and up to the sides of each sieve. The smooth surface of the metal should face up.

	Minimum Test weight per Winchester bushel.	Pounds. 55 58
D CORN.	Total per centum may include per centum of heat- damaged and mahogany kernels not more than—	.0 .0 0.5 0.5 3.0
DAMAGED CORN.	Total per centum not more than—	6 6 4 4 2 10 110 110 110 110 110 110 110 110 11
	Per centum of foreign material and cracked corn not more than—	01 00 44 TO 50 P
GRADES	Per centum of moisture not more than—	14.0 15.5 17.5 19.5 21.5 23.0
FEDERAL CORN GRADES In effect Dec. 1, 1916.	Grade number of White Corn, Yellow Corn, or Mixed Corn.	23** 50** 61**

*The corn in grades Nos. 1 to 5, inclusive, must be sweet.

SAMPLE GRADE.—Shall be corn which does not come within the requirements of the grades for white corn, the grades for white corn, including corn that is hot, fire burned, infested with live weevil our otherwise of distinctly low quality.

DEFINITION OF TERMS USED ABOVE.

White Corn.—Corn of which at least 98 per centum by weight of the kernels are white. A

slight tinge of red on kernels of corn otherwise yellow shall not affect their classification as yellow

(3) Mixed Corn.—Corn of various colors not coming within the limits for color as provided in

the definitions of white corn and yellow corn. White capped yellow kernels shall be classified

Yellow Corn.—Corn of which at least 95 per centum by weight of the kernels are yellow. A

classification as white corn.

(4) Foreign Material and Cracked Corn.—Kernels and pieces of kernels of corn and all matter, other than corn, which will pass through a metal sieve perforated with round holes fourteen sixtyfourths of an inch in diameter, and all foreign material remaining on the sieve after the sample of the Heat-Damaged and Mahogany Kernels.—Kernels of corn which have been discolored as a re-Per Centum.—In case of foreign material and cracked corn, damaged corn, and heat-dam-Per Centum of Moisture. The percentage of moisture contained in corn (maize), which shall Circular No. 72, and supplement thereto, issued by the U. S. Department of Agriculture, Bureau of

Plant Industry.

be equivalent to that ascertained by the moisture tester and the method of use thereof described in

aged and mahogany kernels, is the percentage ascertained by weight.

sult of heating caused by fermentation or as a result of fire.

corn involved has been screened.

slight tinge of light straw color or of pink on kernels of corn otherwise white shall not affect their

WEIGHTS PER BUSHEL OF GRAIN AND SEEDS.

Wheat	60
Buckwheat	52
Corn, shelled	56
Corn, unshelled	70
Corn Meal	50
Corn, Kafir	56
Milo	56
Feterita	56
Oats	32
Rye	56
Barley	48
Spetz	40
Bran	20
Cane Seed	50
Sorghum Seed	48
Clover Seed	60
Timothy Seed	45
Millet Seed	50
Cotton Seed	33
Blue Grass Seed	14
Redtop Seed	14
Orchard Grass Seed	14
Hemp Seed	44
Flow Sood	56

onds-shields-lonsdale grain co.



COMPLIMENTS OF SIMONDS-SHIELDS GRAIN CO. KANSAS CITY, MISSOURI